

FIG. 1

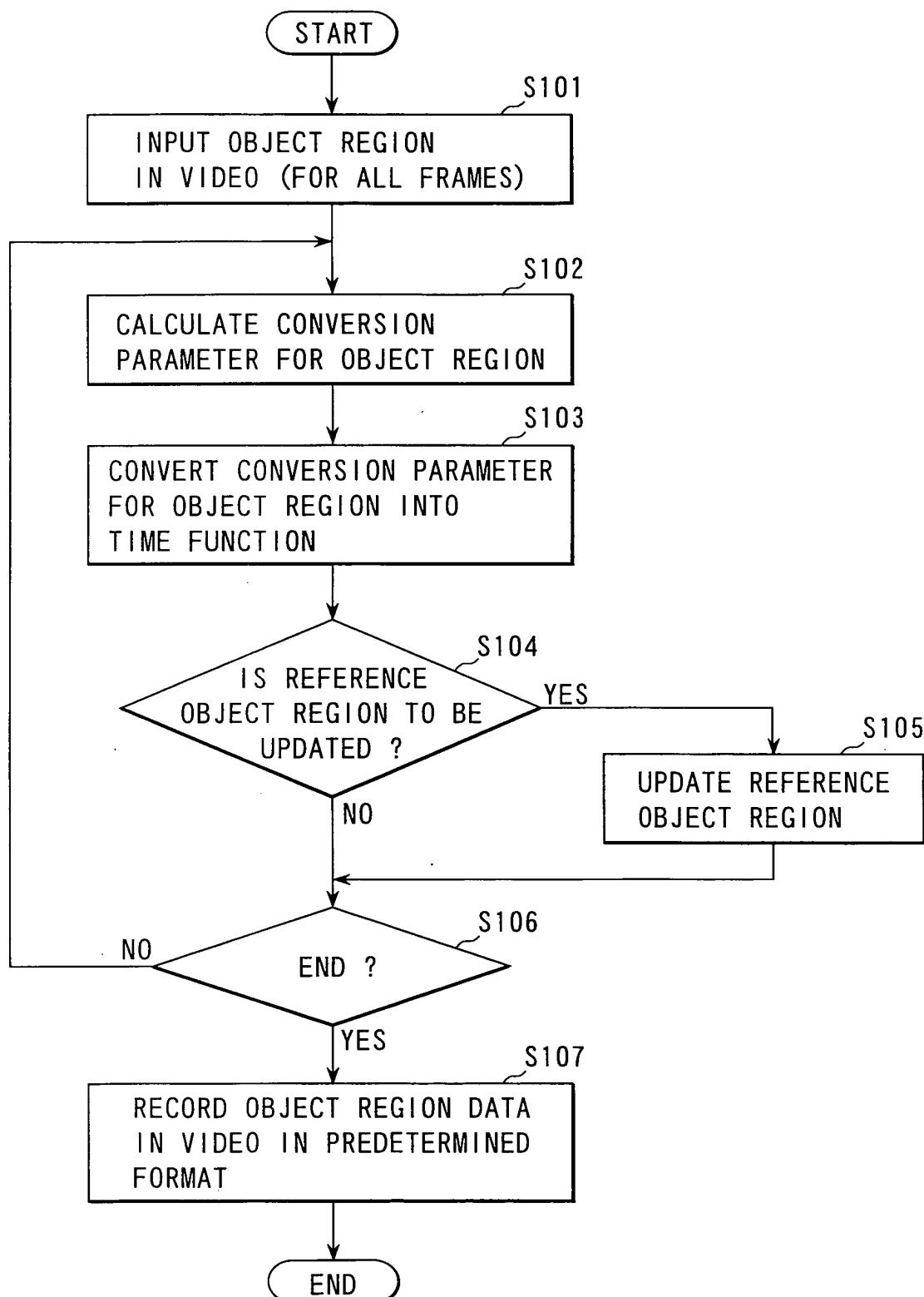


FIG. 2

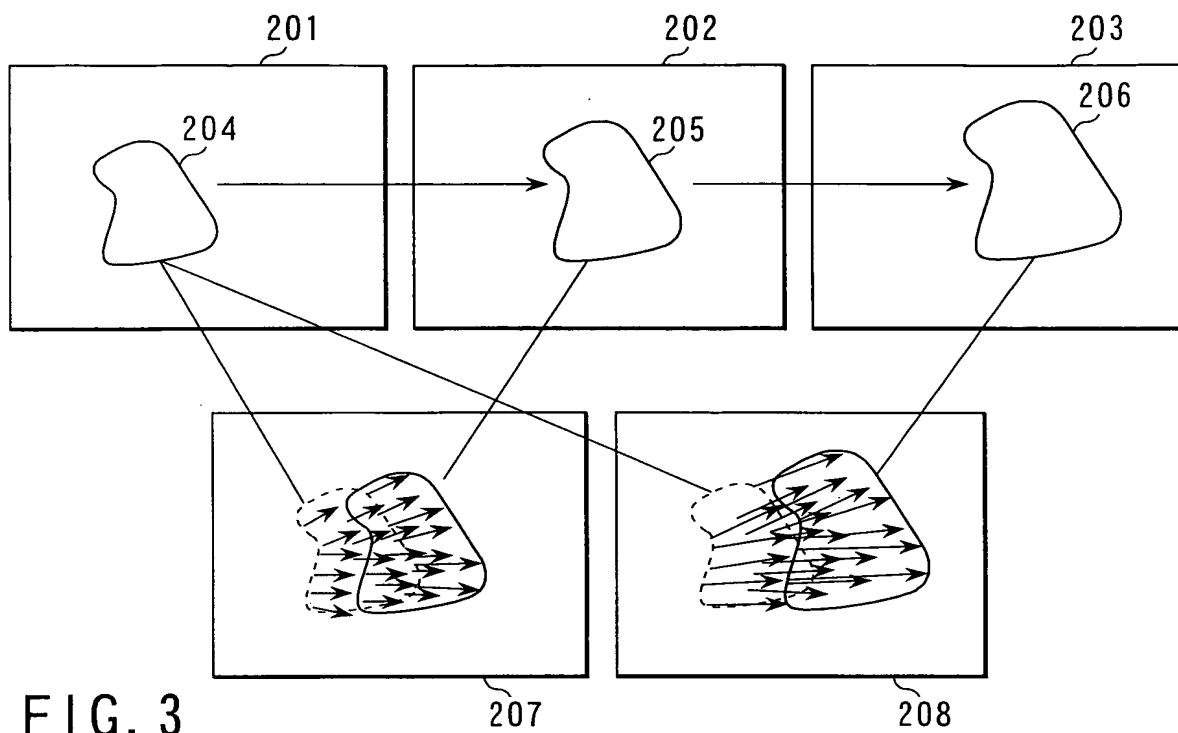


FIG. 3

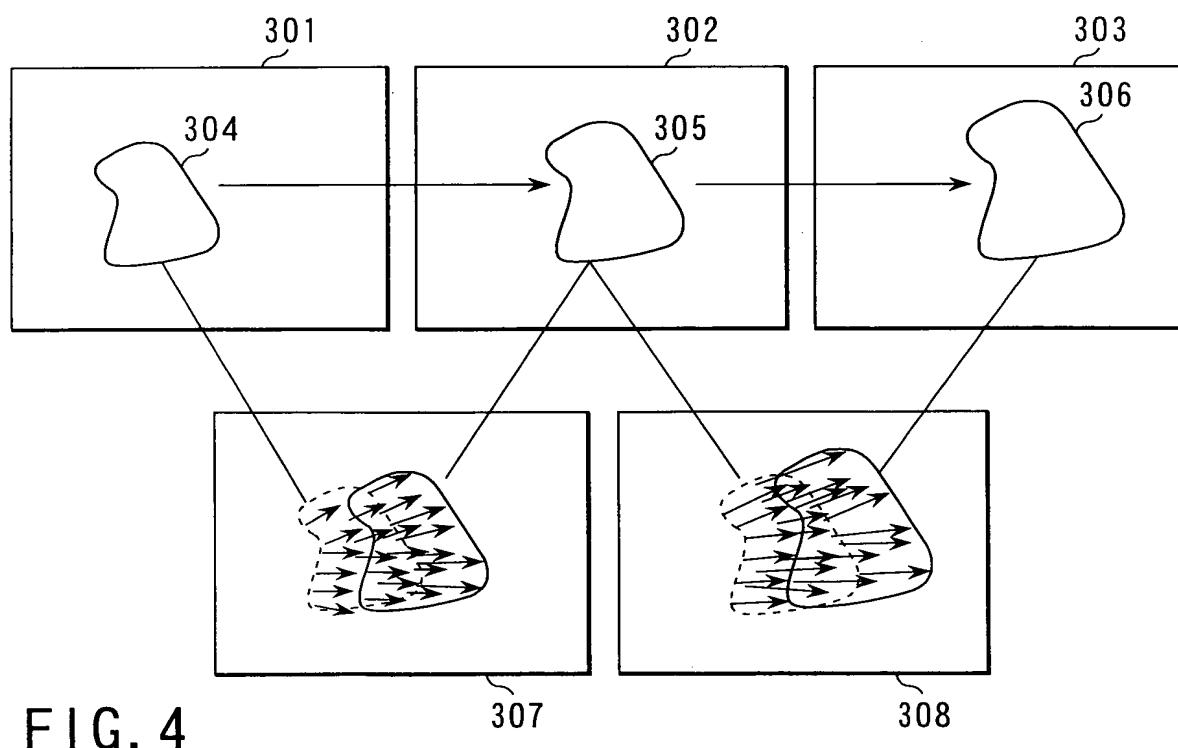


FIG. 4

PARAMETER ai

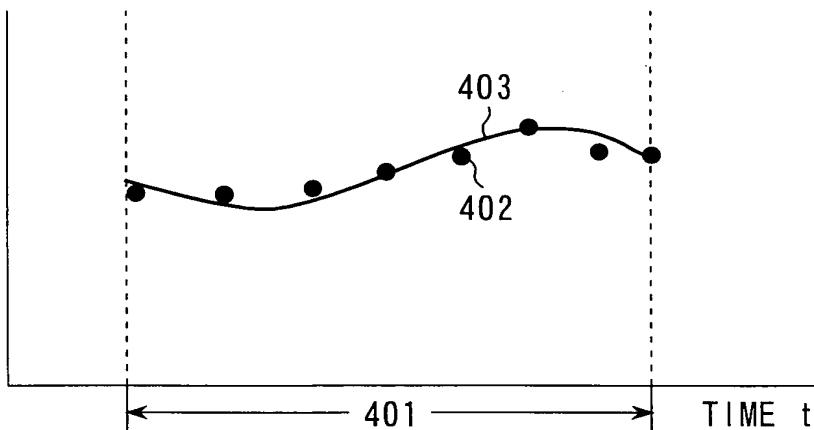


FIG. 5

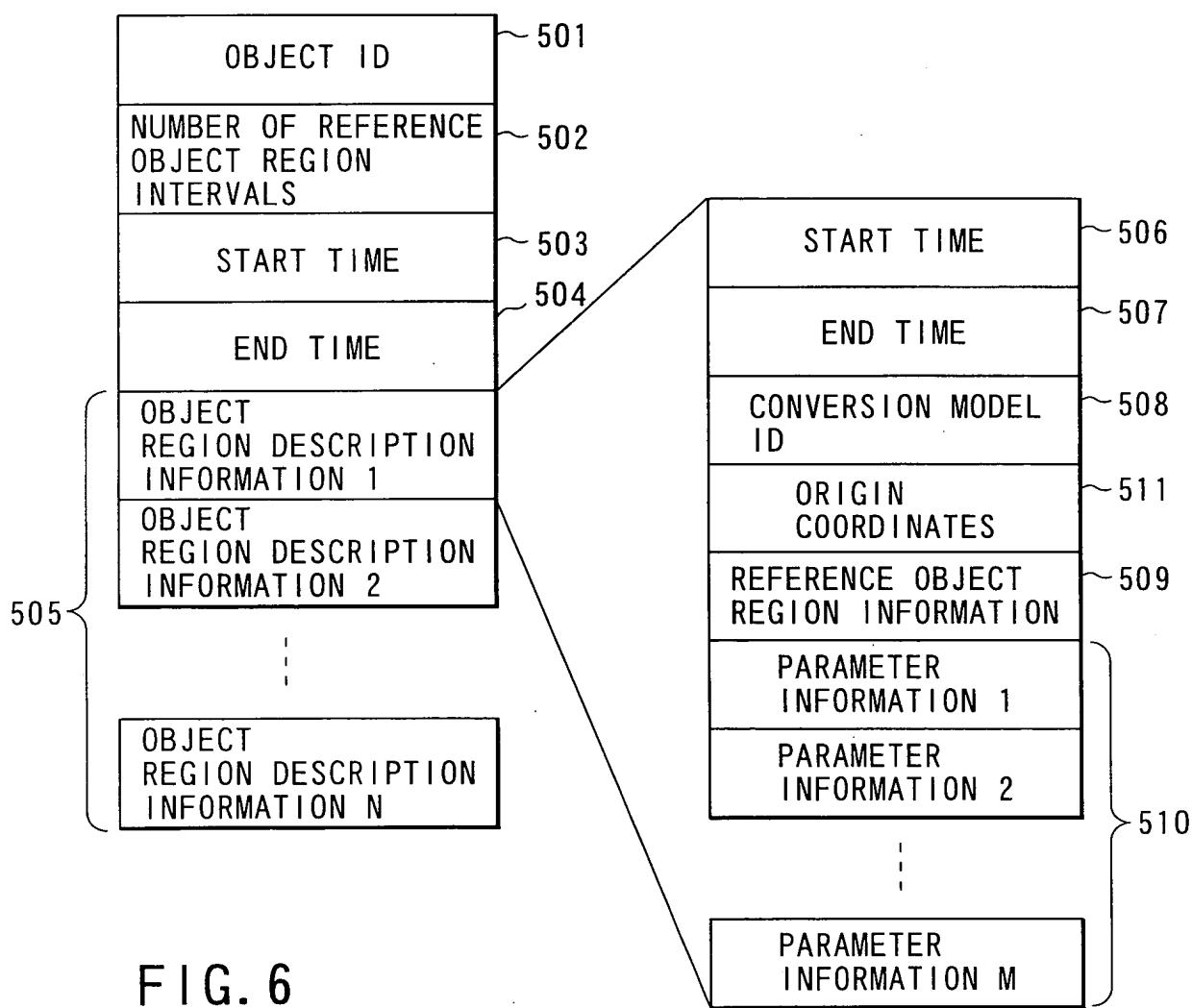


FIG. 6

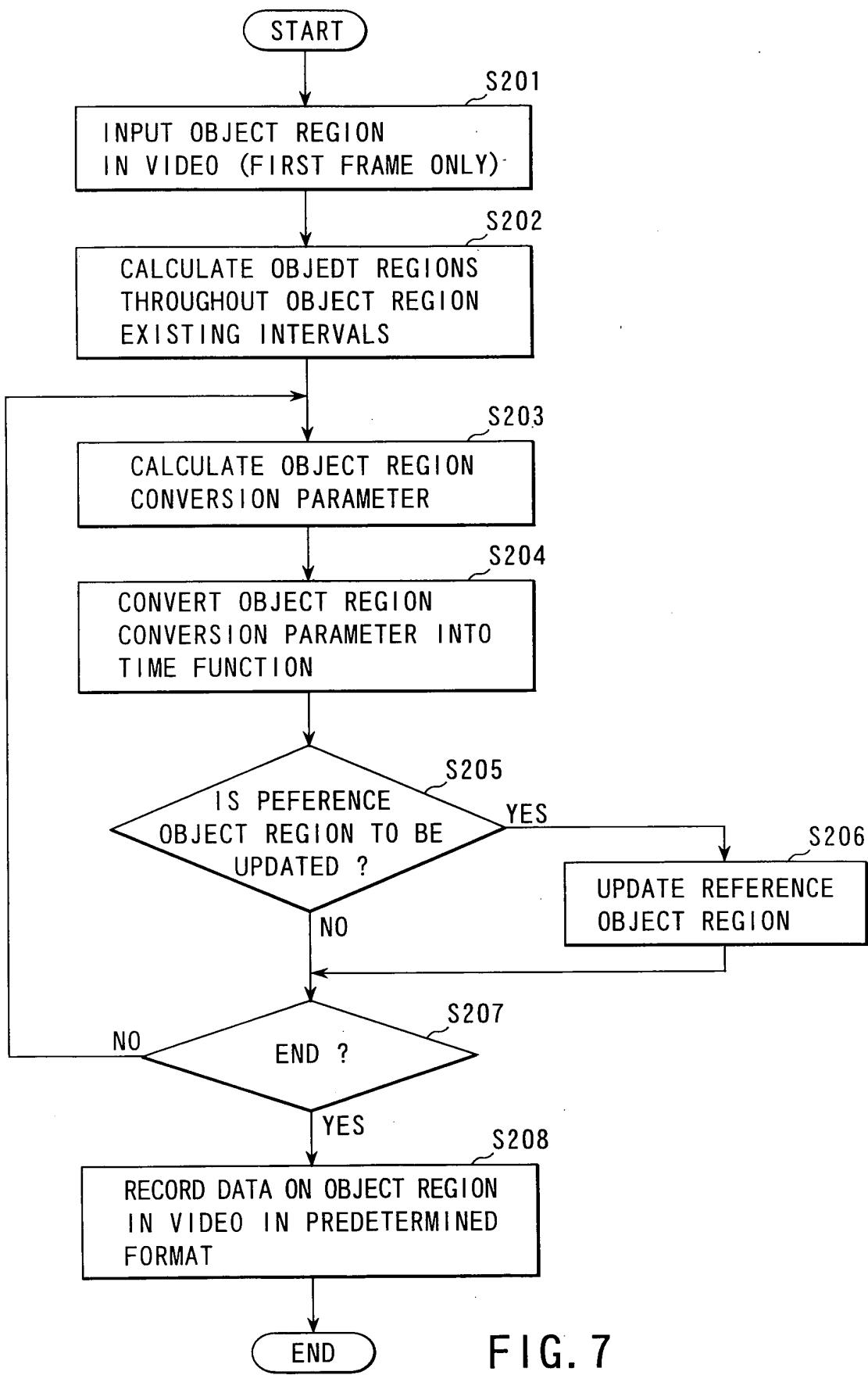


FIG. 7

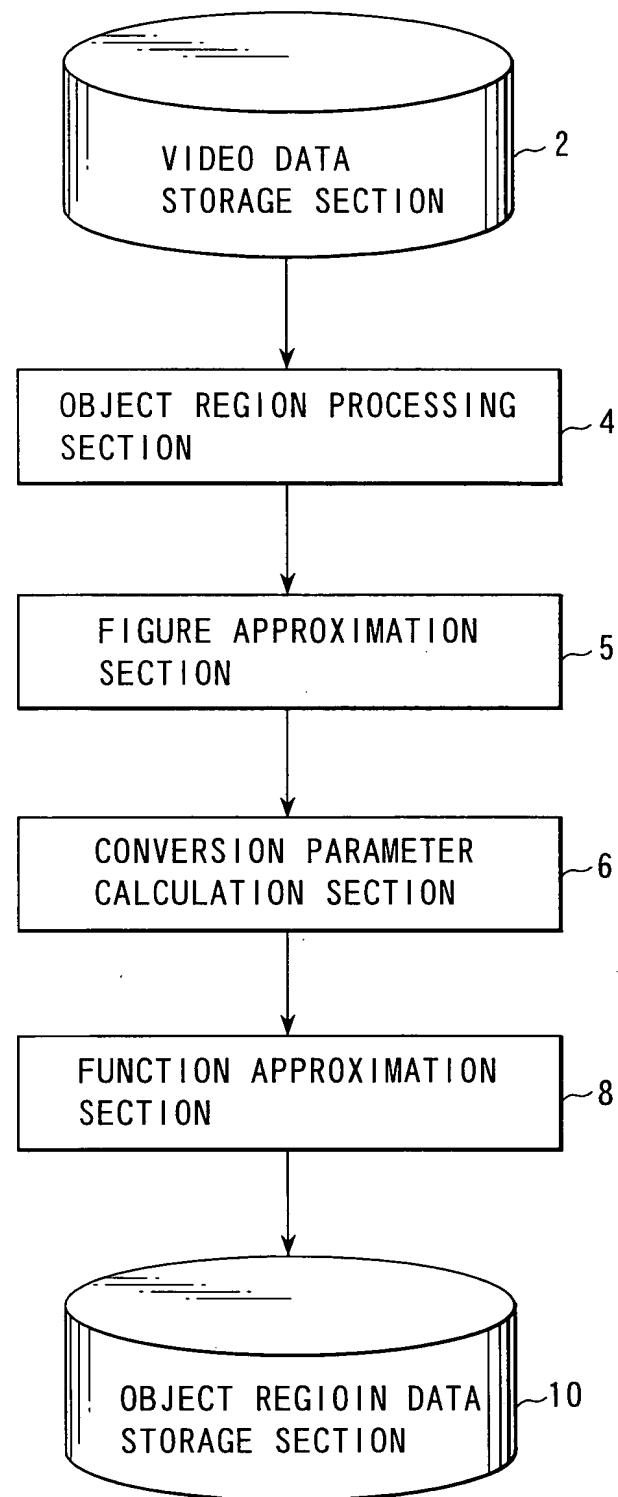


FIG. 8

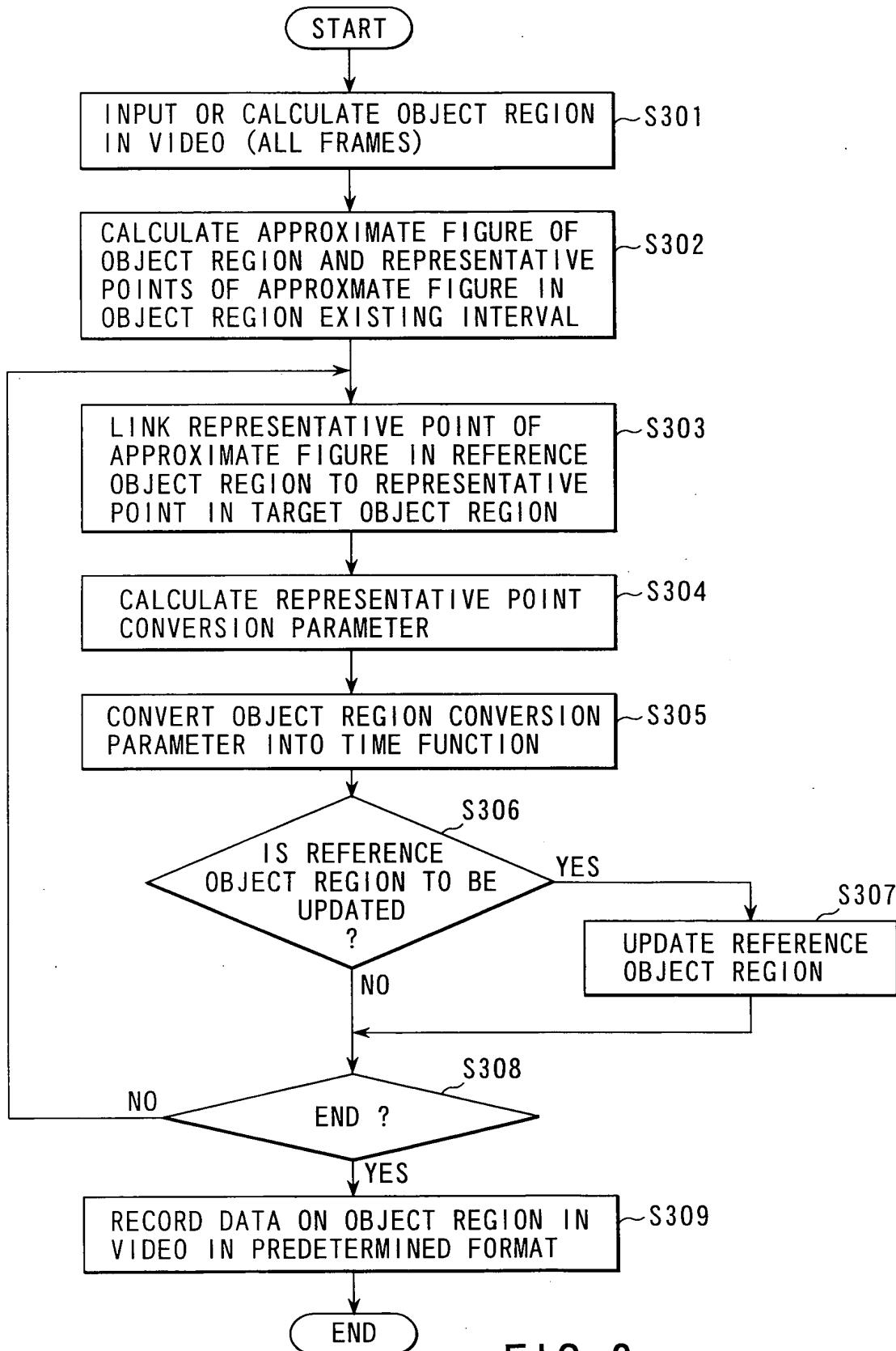


FIG. 9

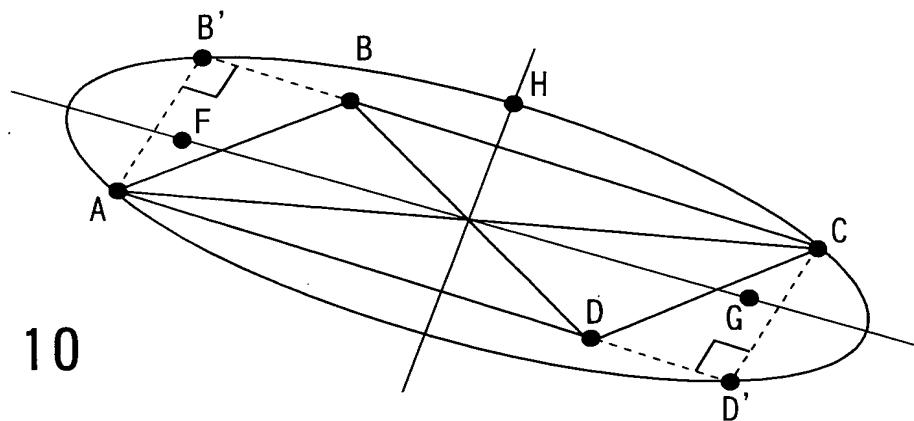


FIG. 10

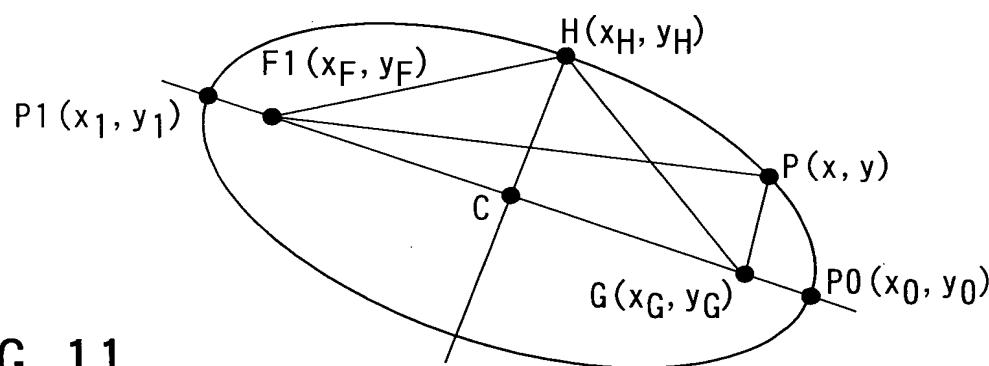


FIG. 11

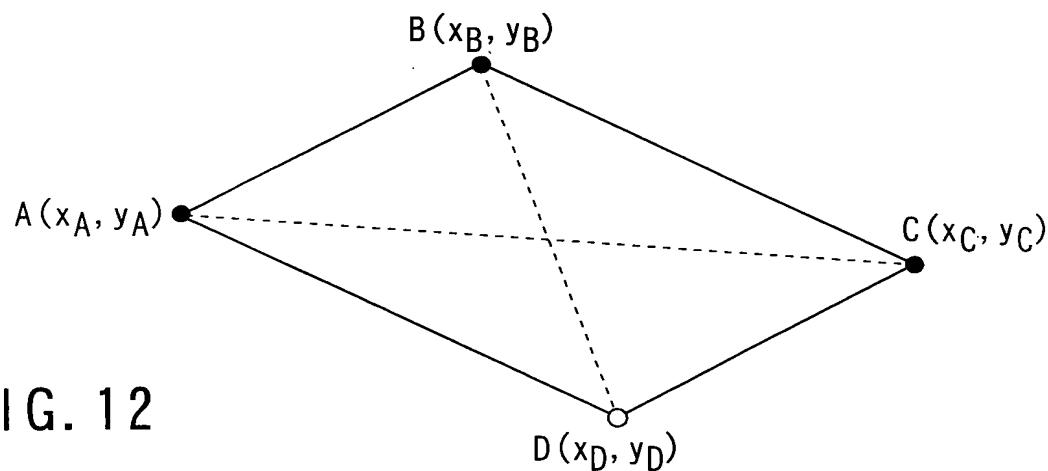


FIG. 12

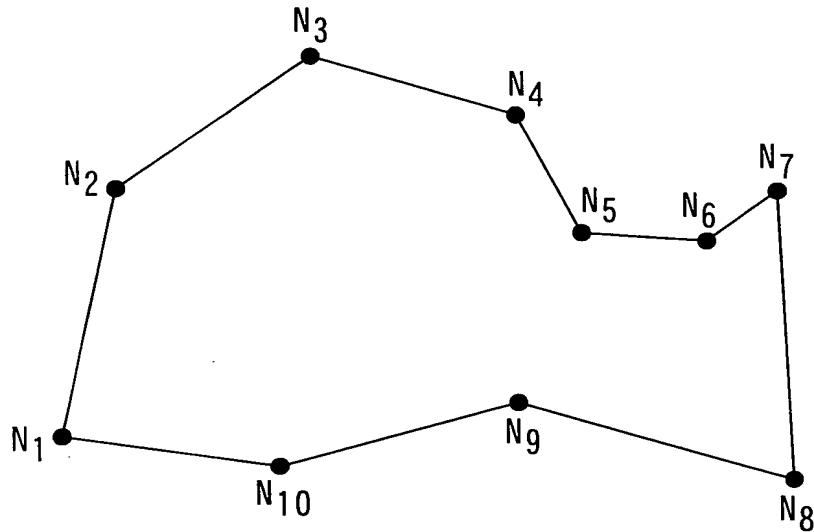


FIG. 13

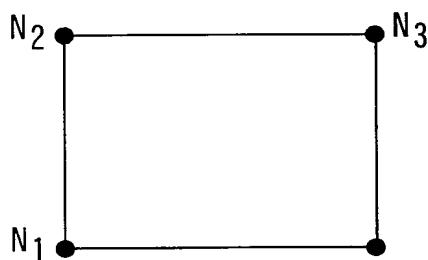


FIG. 14A

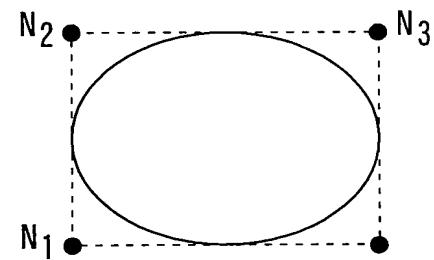


FIG. 14B

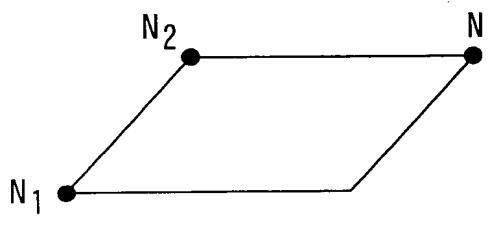


FIG. 14C

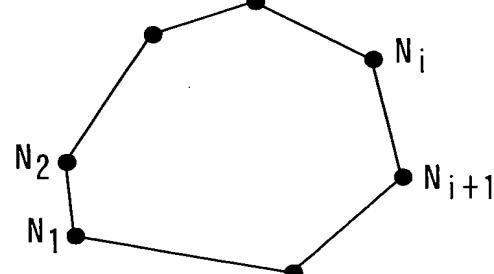


FIG. 14D

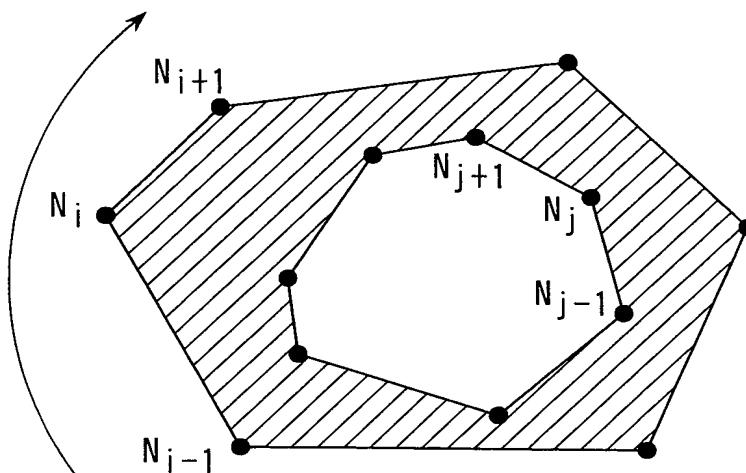


FIG. 15

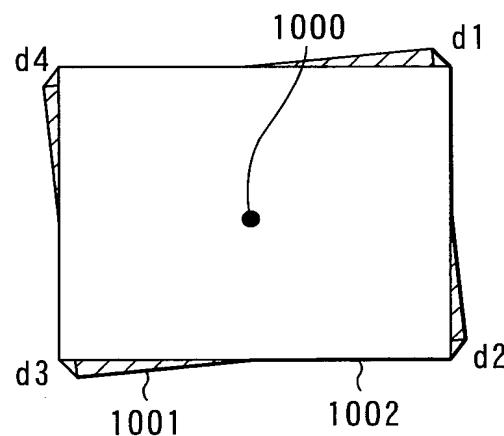


FIG. 16

MOVEMENT AP- PROXI- MATE FIGURE	ENLARGE- MENT/ REDUC- TION	ROTA- TION	PARALLEL TRANSLA- TION	4-PARAM- ETER CONVER- SION	AFFINE CONVER- SION	PROJEC- TION CONVER- SION	PARA- BOLIC CONVER- SION
RECTANGLE, ELLIPSE (WITHOUT GRADIENT)	○	✗	○	✗	✗	✗	✗
RECTANGLE, ELLIPSE (WITH GRADIENT)	○	○	○	○	✗	✗	✗
PARALLELO- GRAM	○	○	○	○	○	✗	✗
POLYGON (NUMBER OF VERTEXES >11)	○	○	○	○	○	○	○

FIG. 17

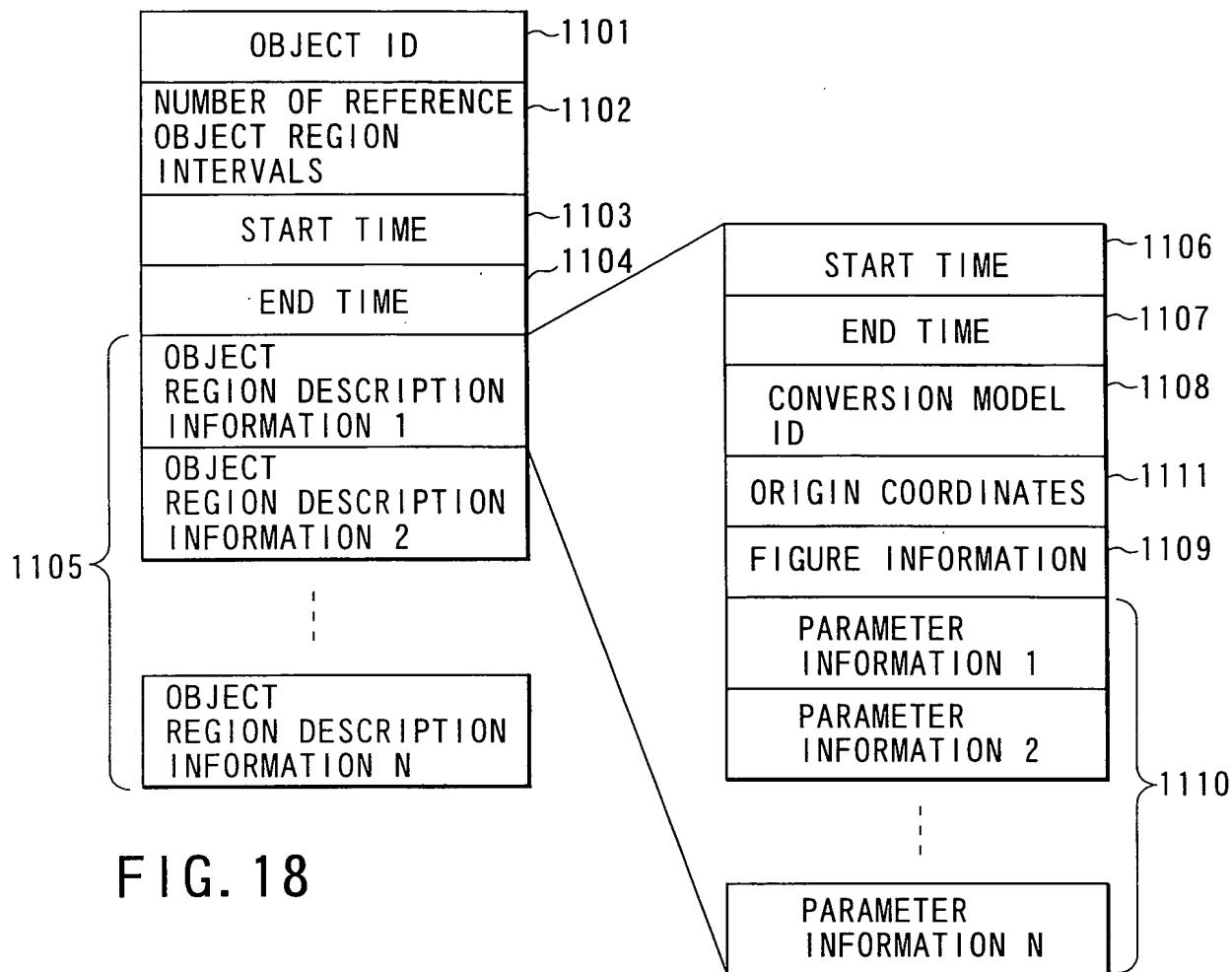


FIG. 18

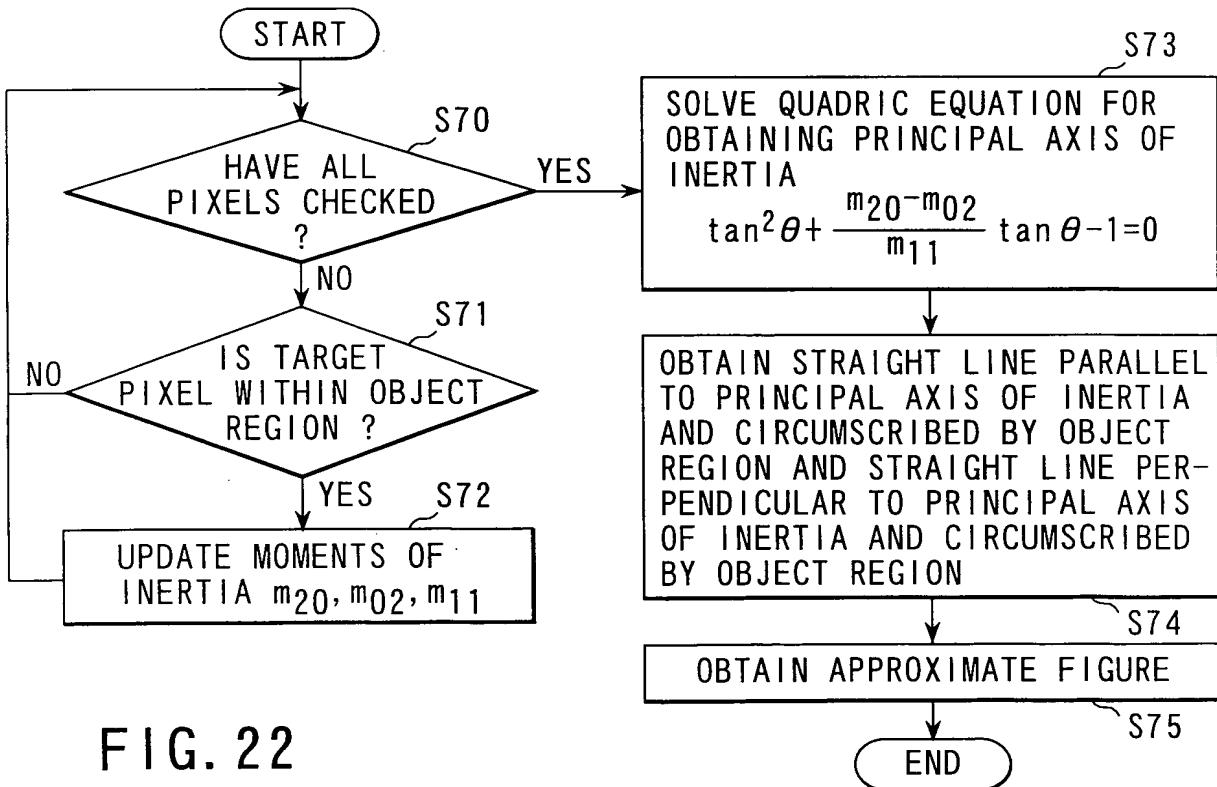


FIG. 22

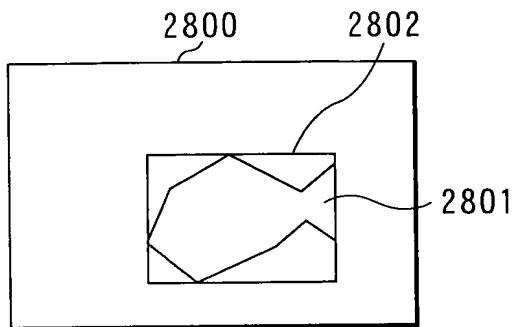


FIG. 19

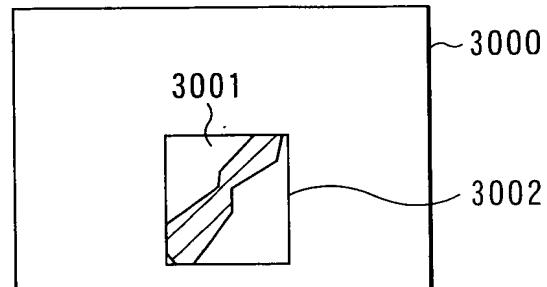


FIG. 20

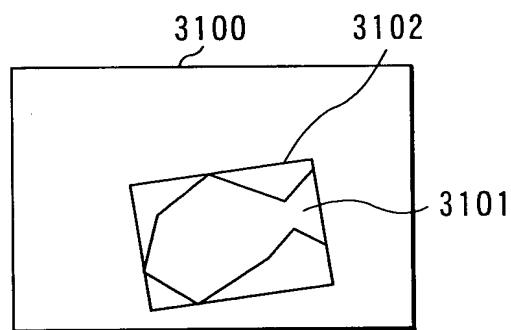


FIG. 21A

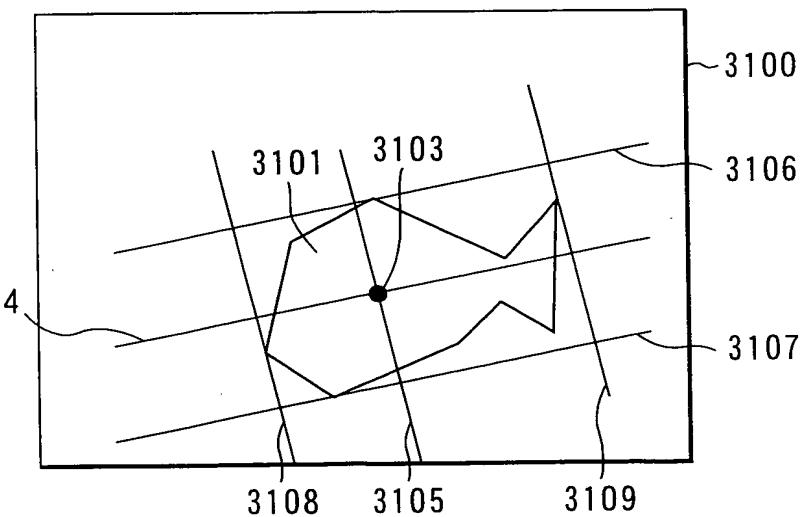


FIG. 21B

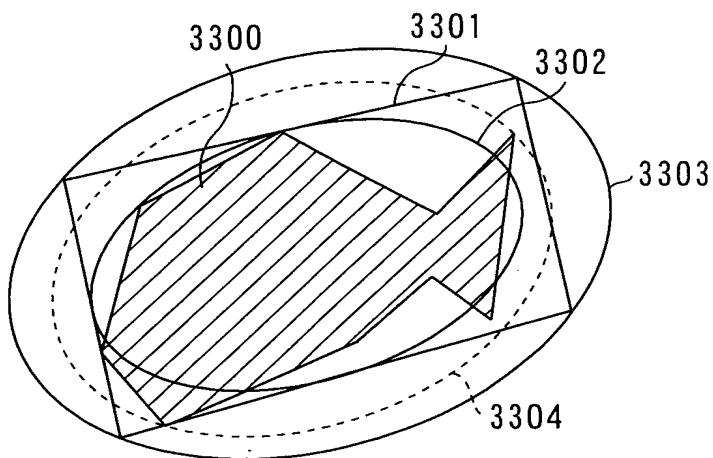


FIG. 23

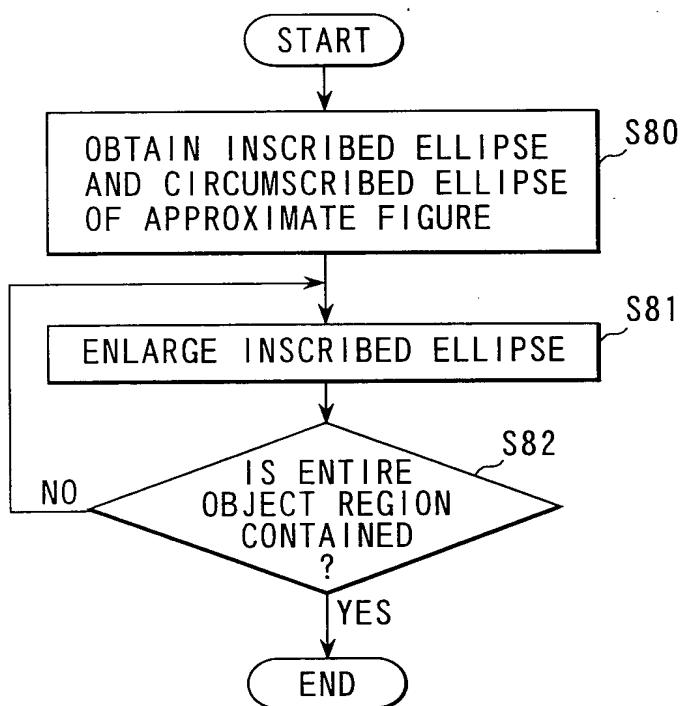


FIG. 24

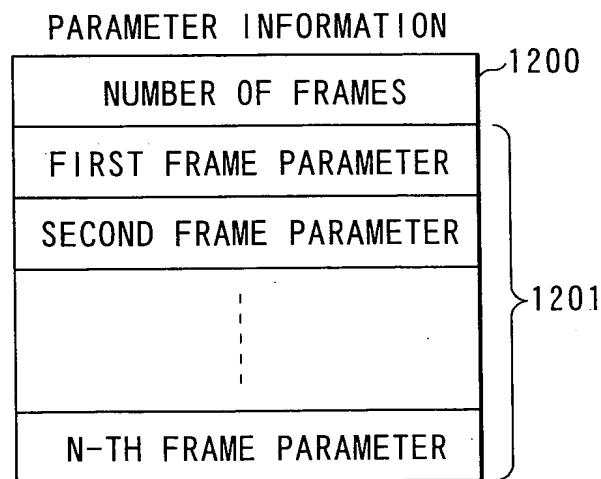


FIG. 25

PARAMETER INFORMATION

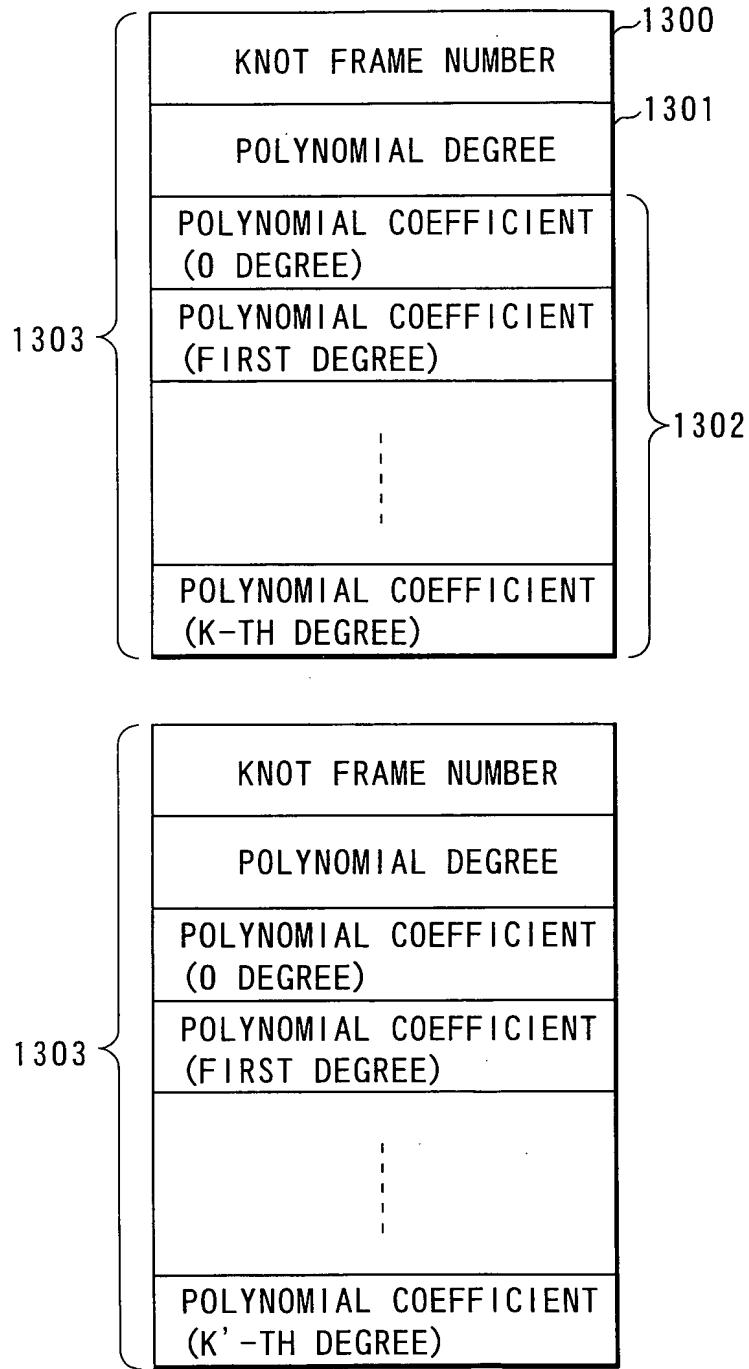


FIG. 26

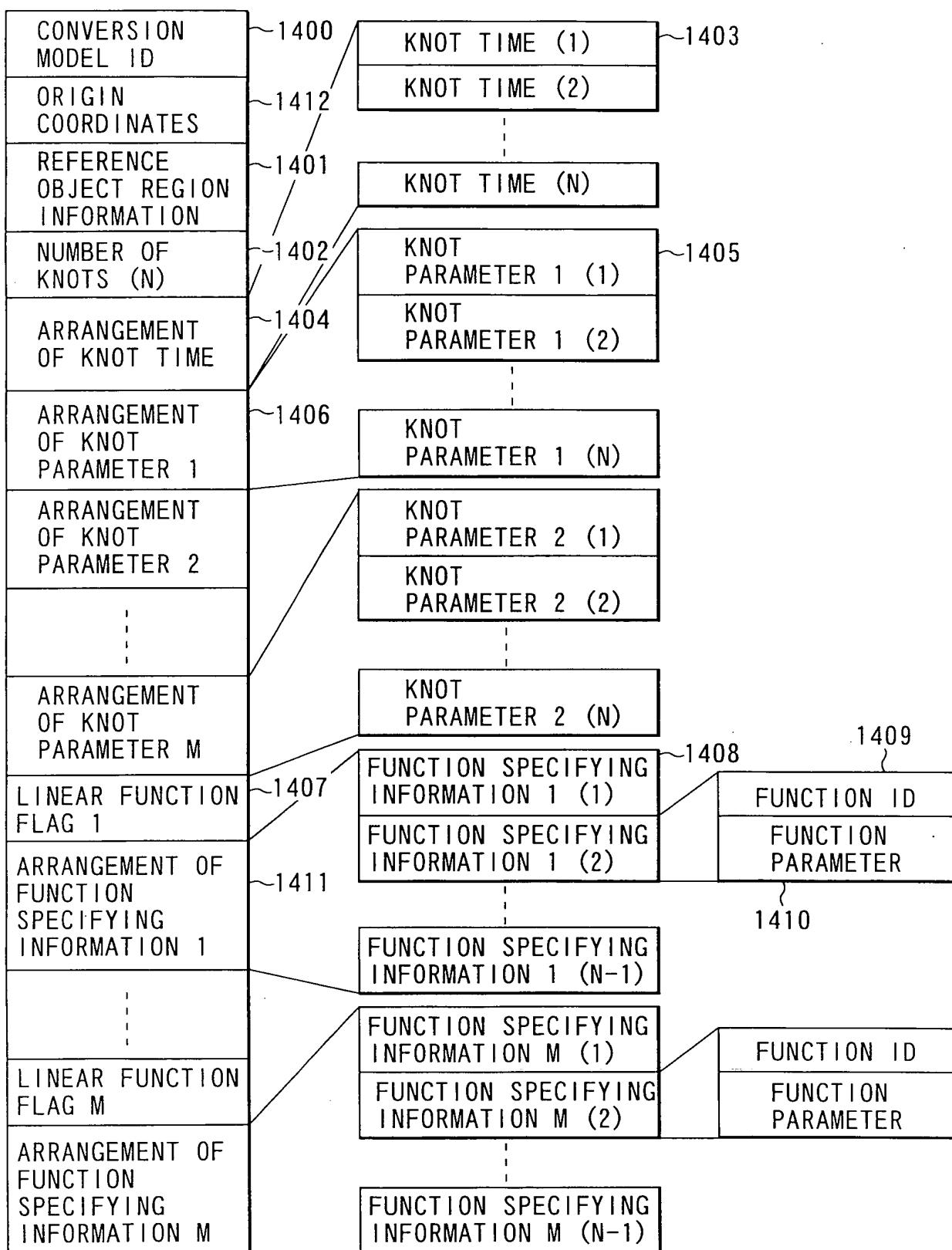


FIG. 27

FUNCTION ID	TYPE OF FUNCTION	FUNCTION PARAMETER	LIMIT CONDITION
-1	NO TYPE (NUMBER IS NOT DEFINED)	NO PARAMETER	NO LIMIT
0	$f(t) = f_a + v_a(t - t_a)$	NO PARAMETER	$v_a = \frac{f_b - f_a}{t_b - t_a}$
1	$f(t) = f_a + v_a(t - t_a) + \frac{1}{2}a_a(t - t_a)^2$	a_a	$v_a = \frac{f_b - f_a}{t_b - t_a} - \frac{1}{2}a_a(t_b - t_a)$

FIG. 28

DO NOT SCALE DRAWINGS

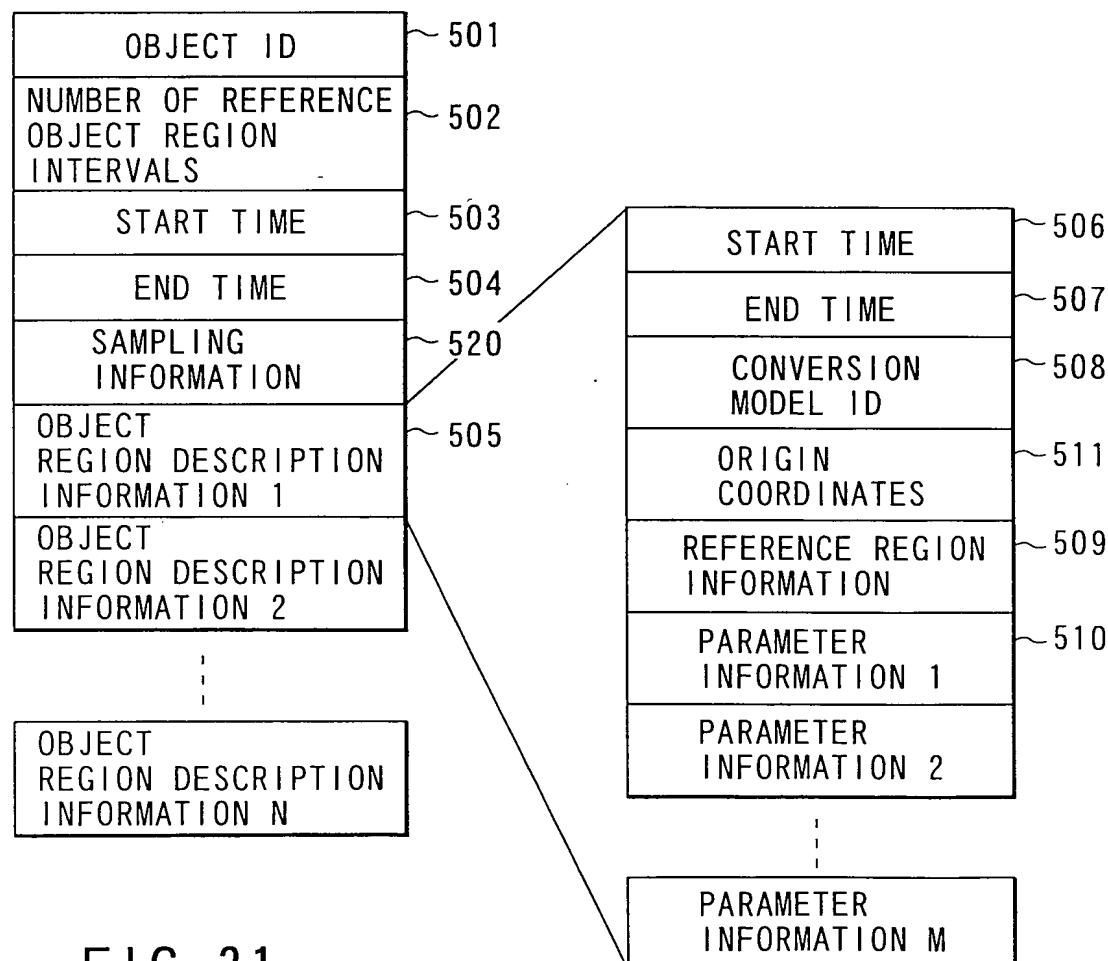


FIG. 31

TIME(1)	0.0
PARAMETER 1	0.0
TIME(2)	0.1
PARAMETER 1	-1.2
TIME(3)	0.2
PARAMETER 1	-2.4
TIME(4)	0.3
PARAMETER 1	-3.4
TIME(5)	0.4
PARAMETER 1	-4.7
TIME(151)	15.0
PARAMETER 1	-33.1

PARAMETER 1

PARAMETER 2

1208 BYTES

0000

$$\begin{aligned}
 a_0 &= 2.1t^2 - 12.6t \\
 (0 \leq t \leq 2) \\
 a_0 &= -2.32t - 12.16 \\
 (2 \leq t \leq 10.5) \\
 a_0 &= 0.2t^2 + 4.4t - \\
 12.4 & \\
 (10.5 \leq t \leq 15)
 \end{aligned}$$

0001

KNOT TIME (1)	0.0
KNOT TIME (2)	2.0
KNOT TIME (3)	10.5
KNOT TIME (4)	15.0

KNOT 1 (1)	0.0
KNOT 1 (2)	-16.8
KNOT 1 (3)	-36.55
KNOT 1 (4)	-33.4

LINEAR FUNCTION FLAG	0
FUNCYION ID (1)	1
FUNCTION PARAMETER	4.2
FUNCYION ID (2)	0
FUNCYION ID (3)	1
FUNCTION PARAMETER	0.4

$$\begin{aligned}
 a_1 &= 5.4t \\
 (0 \leq t \leq 2) \\
 a_1 &= 0.95t + 8.89 \\
 (2 \leq t \leq 10.5) \\
 a_1 &= -3.07t + 51.1 \\
 (10.5 \leq t \leq 15)
 \end{aligned}$$

0002

KNOT 2 (1)	0.0
KNOT 2 (2)	10.8
KNOT 2 (3)	18.9
KNOT 2 (4)	5.1

LINEAR FUNCTION FLAG	1
----------------------	---

0003

57 BYTES

FIG. 29

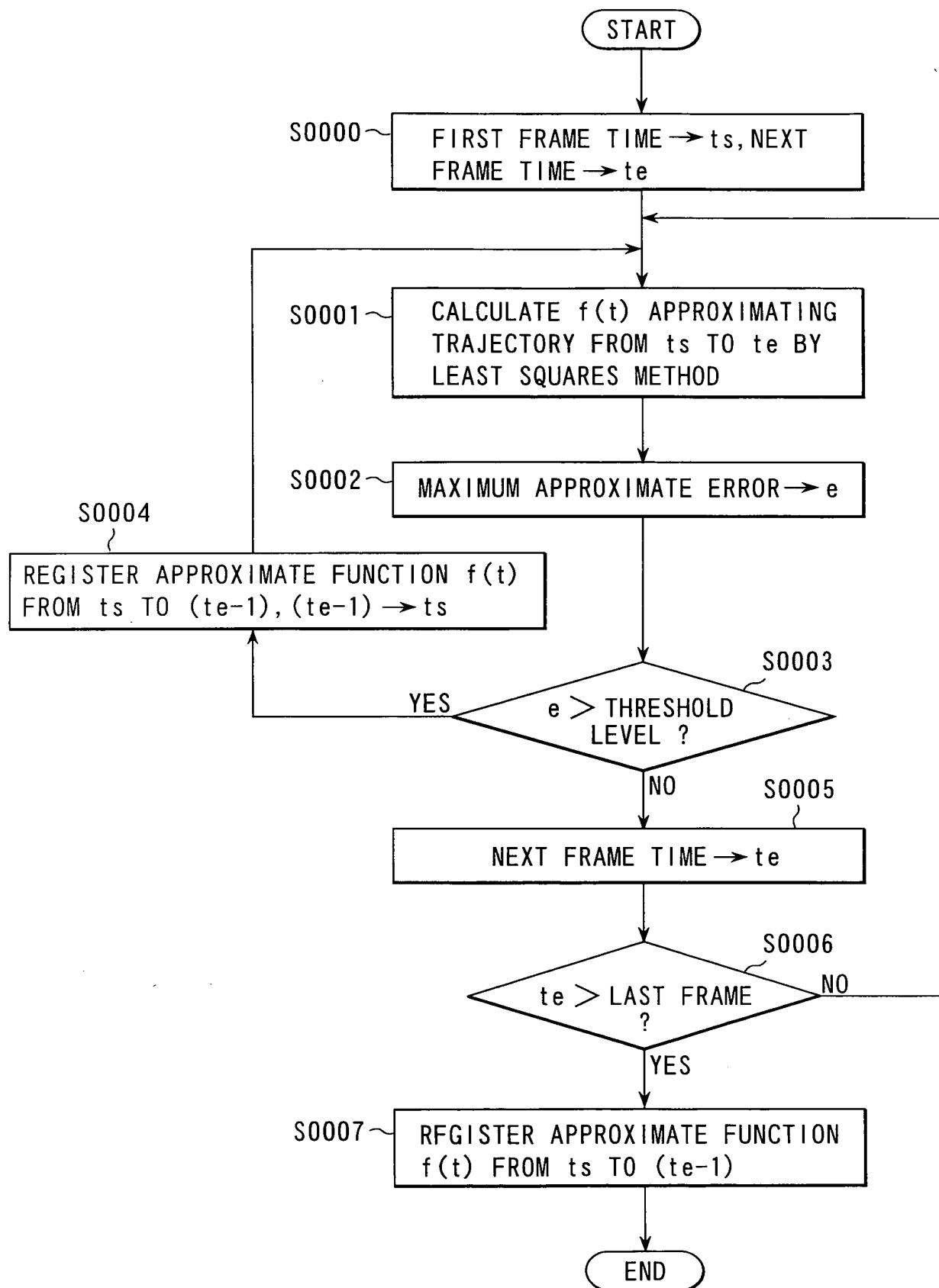


FIG. 30

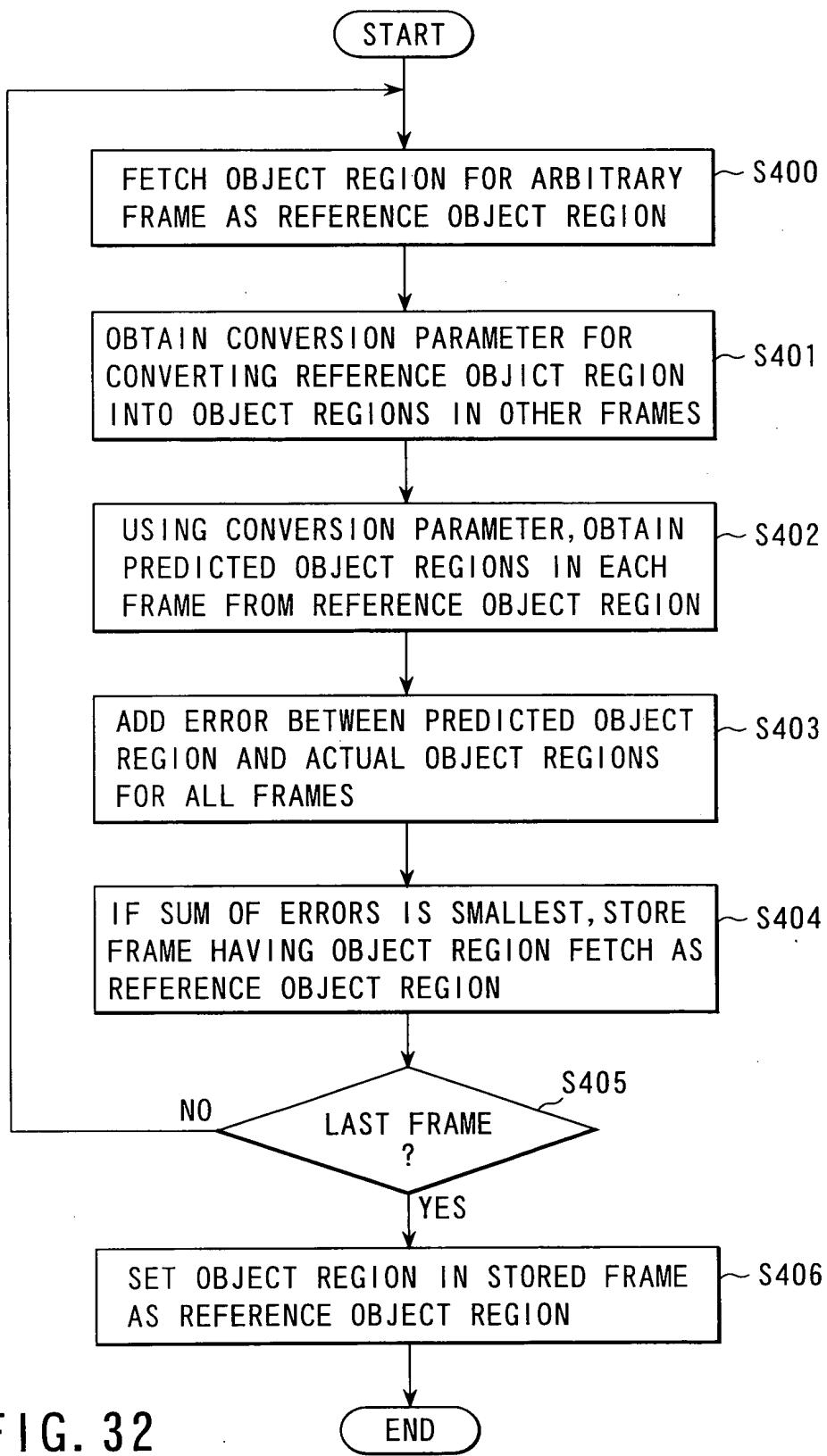


FIG. 32

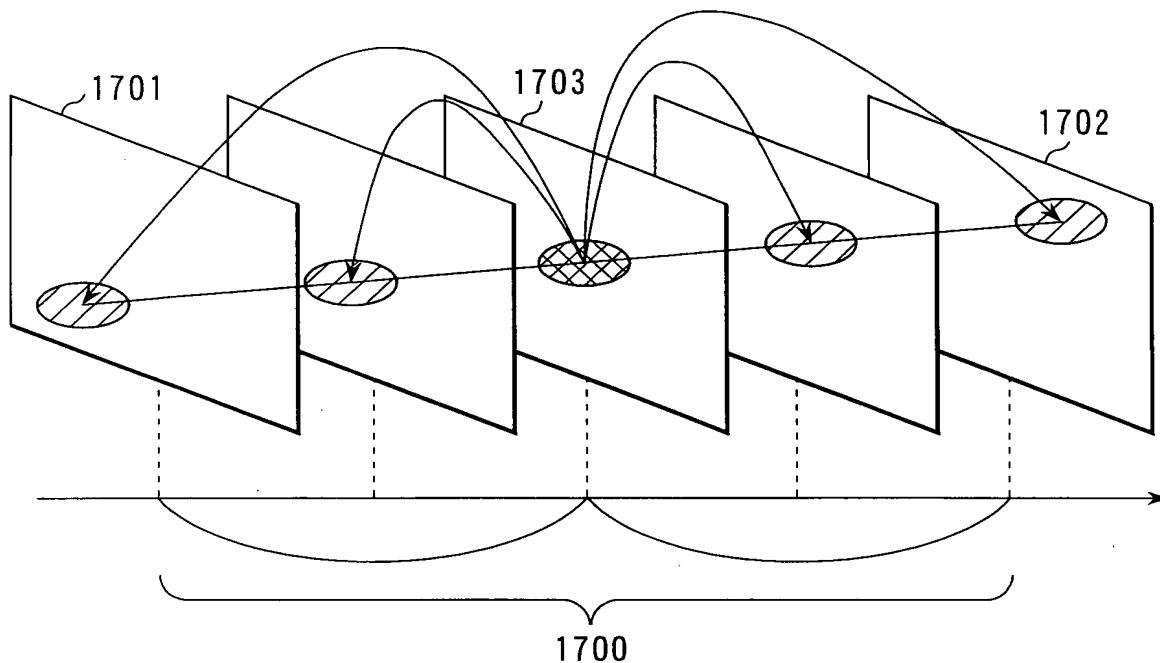


FIG. 33

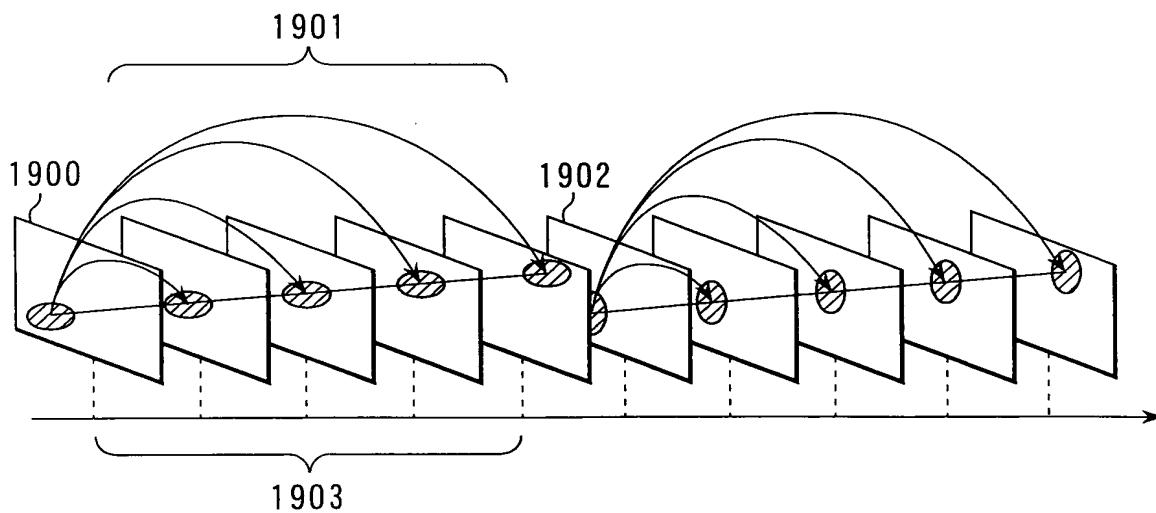


FIG. 35

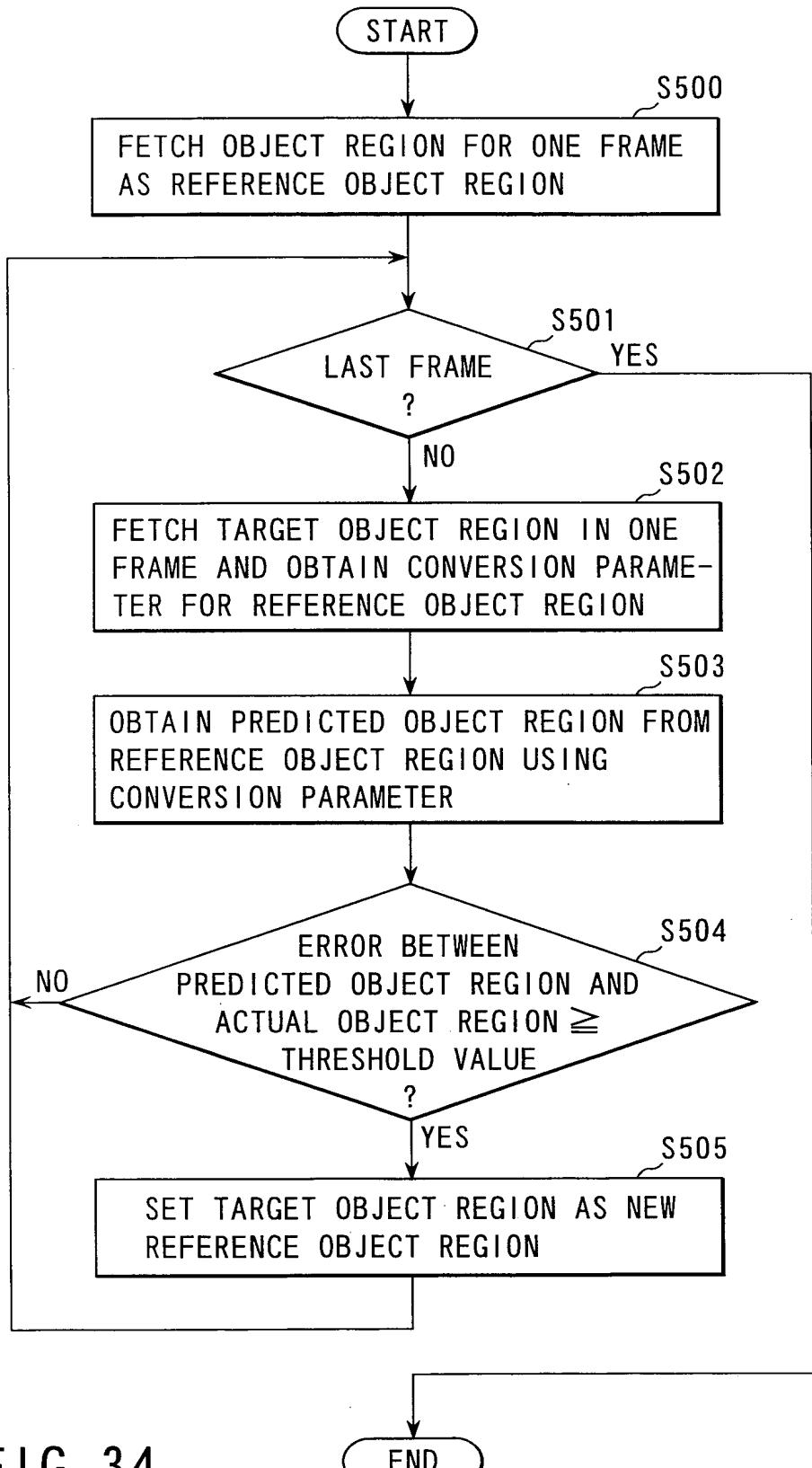


FIG. 34

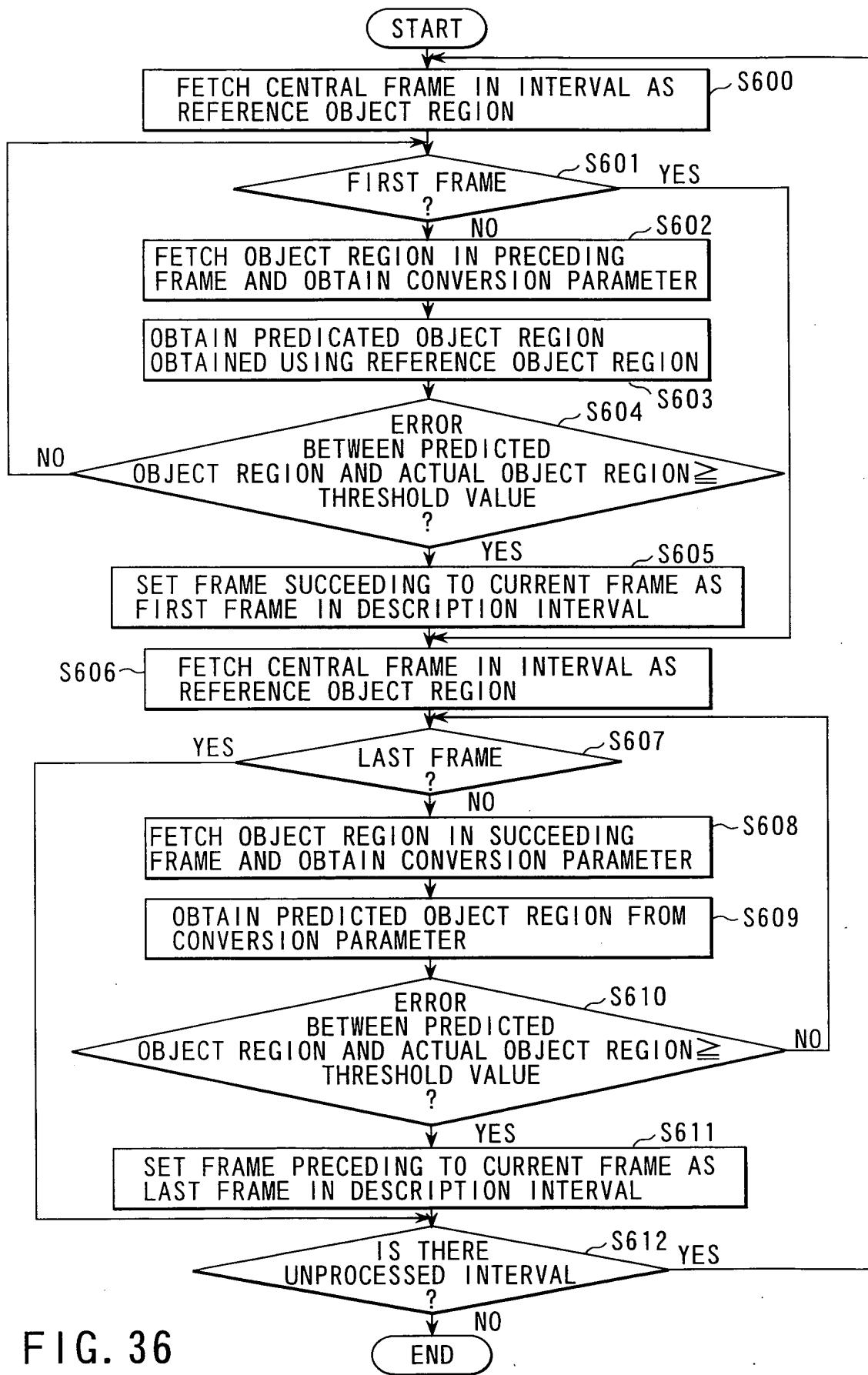


FIG. 36

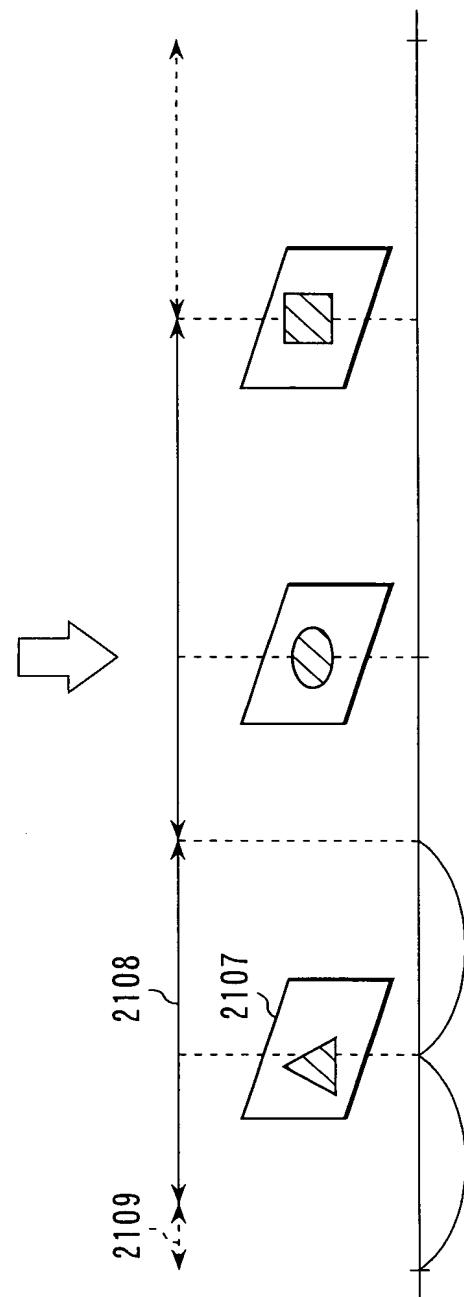
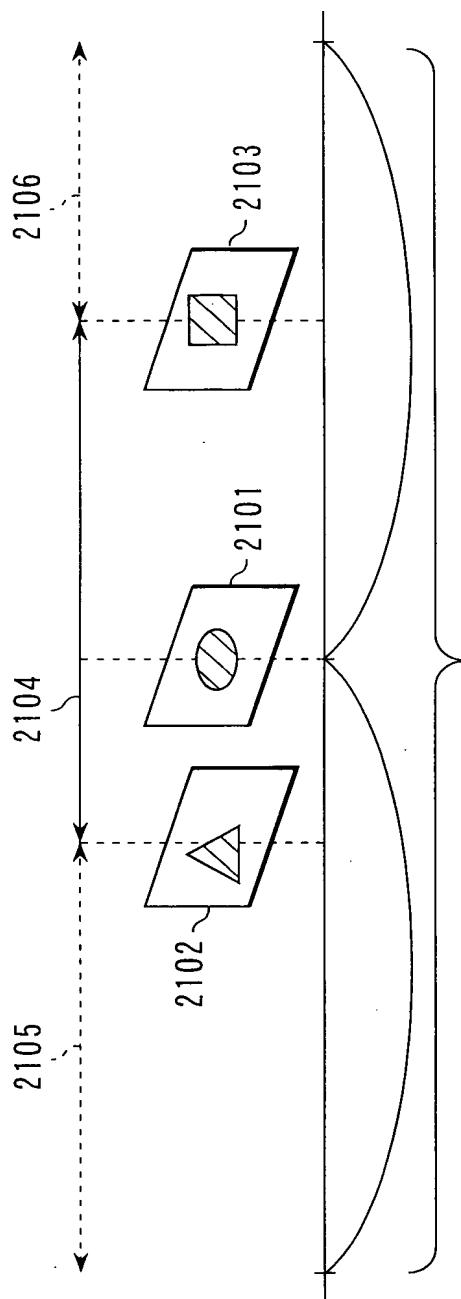
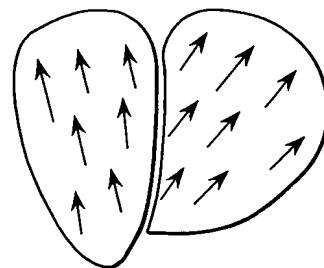


FIG. 38



DETAILED DESCRIPTION

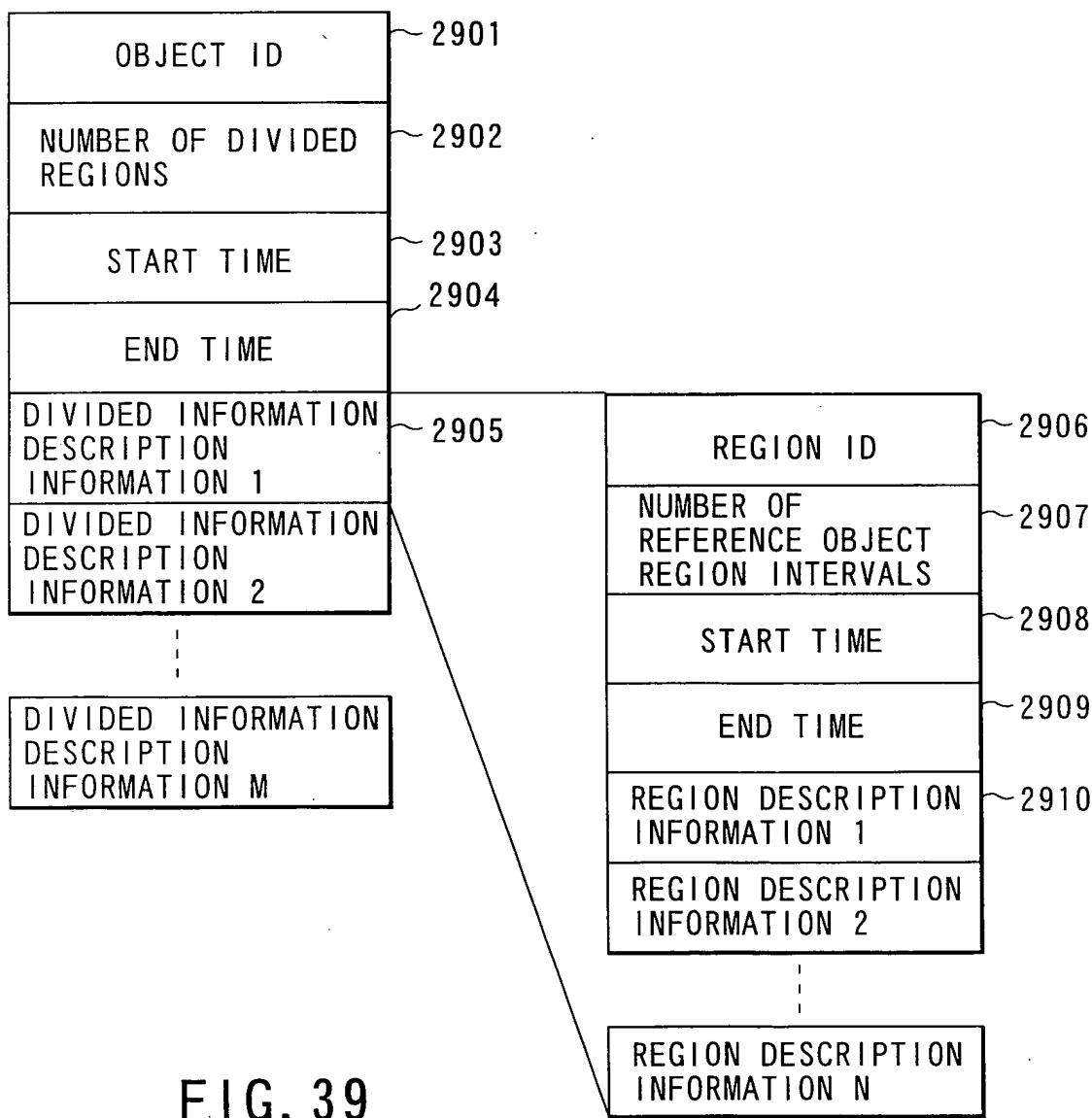


FIG. 39

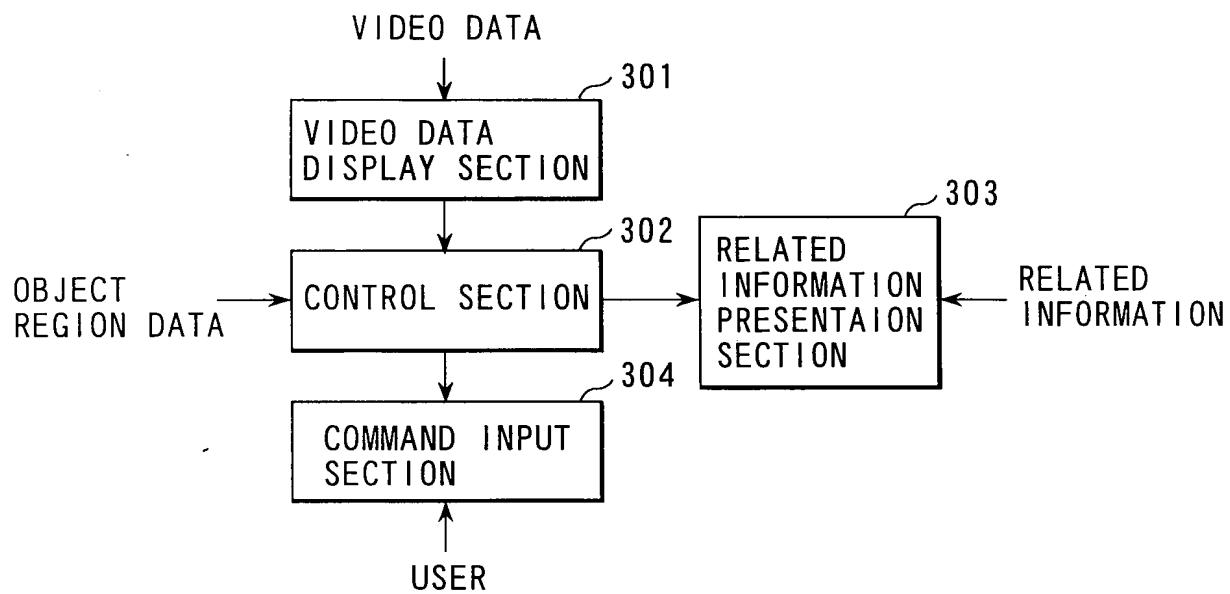


FIG. 40

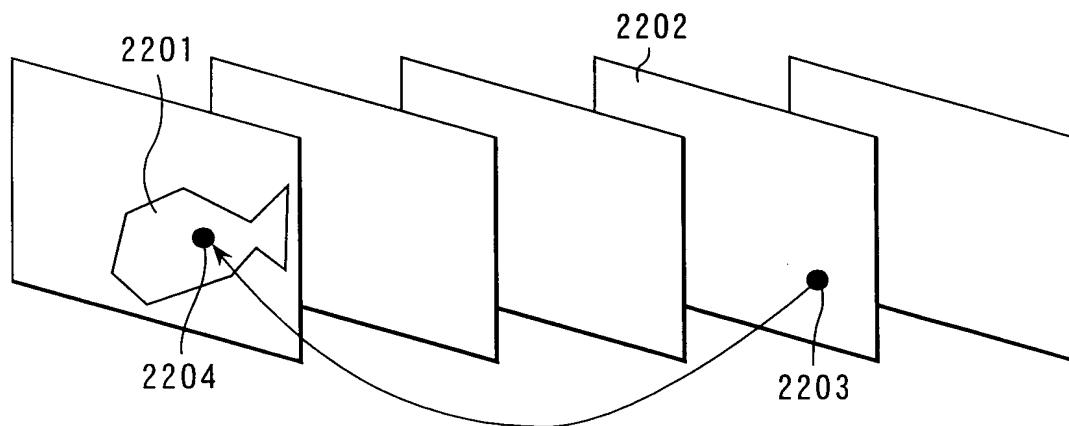
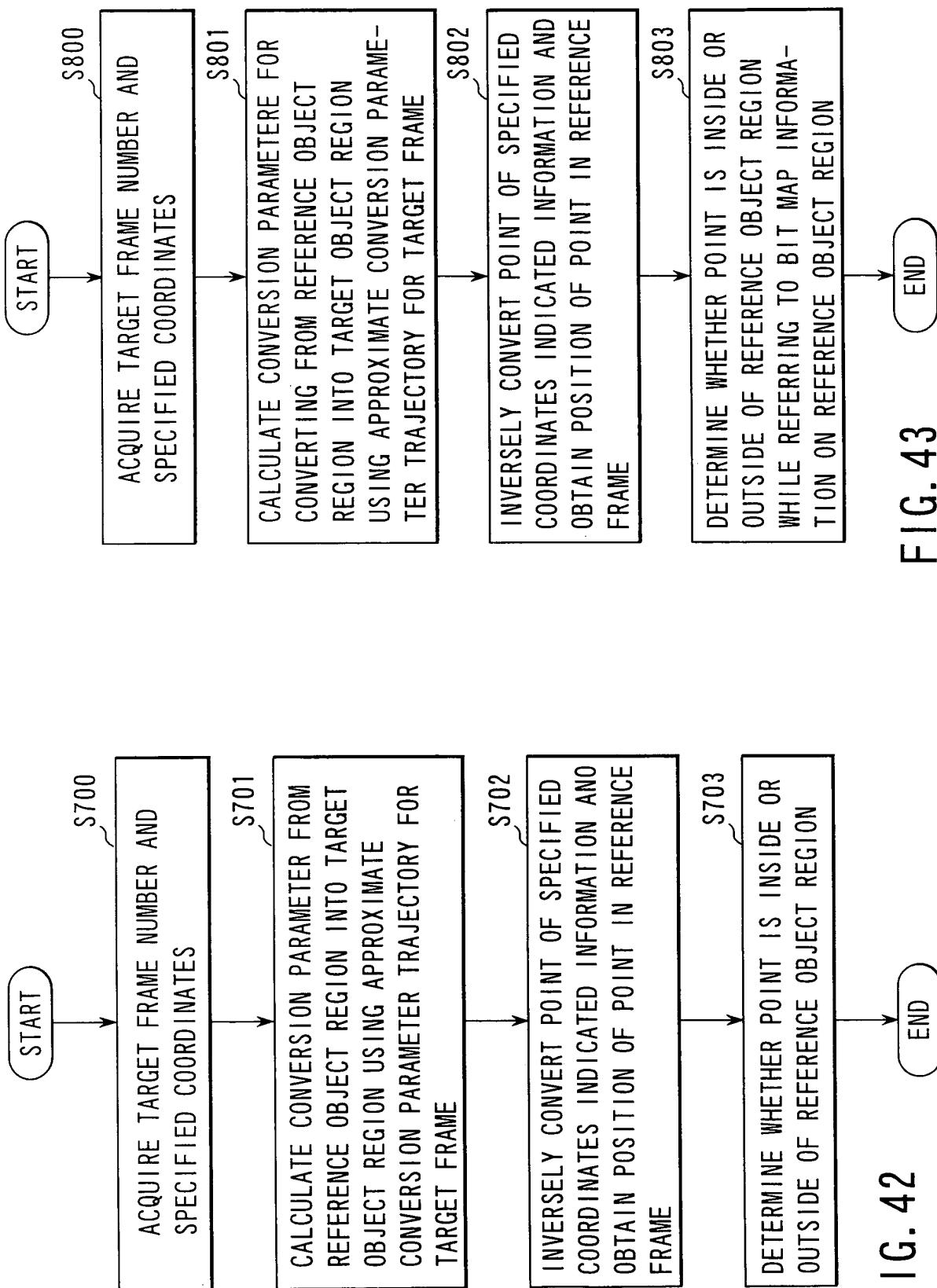


FIG. 41



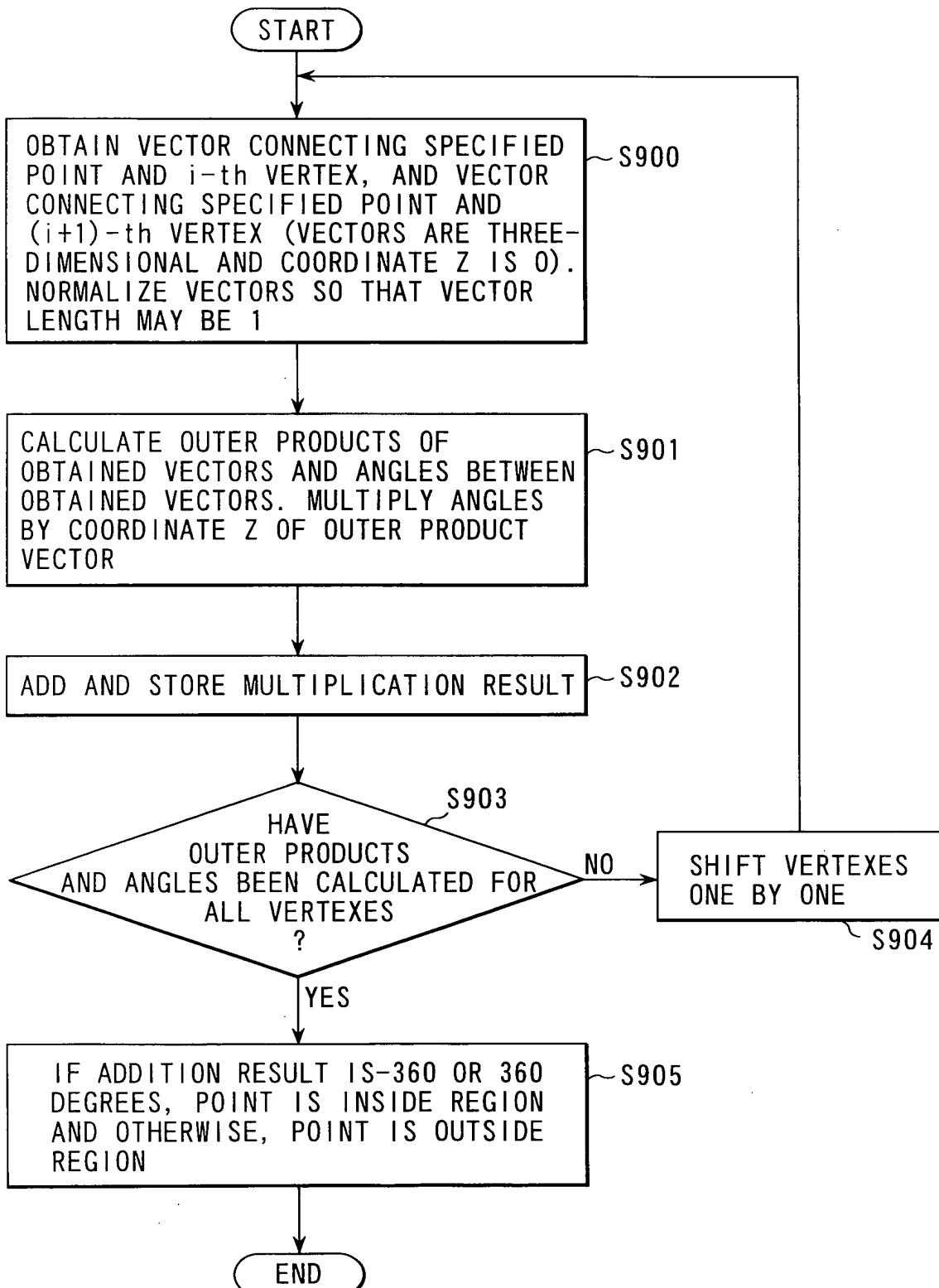


FIG. 44

FIG. 45

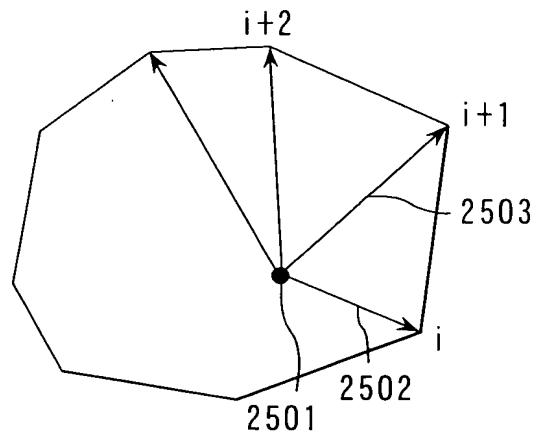


FIG. 46

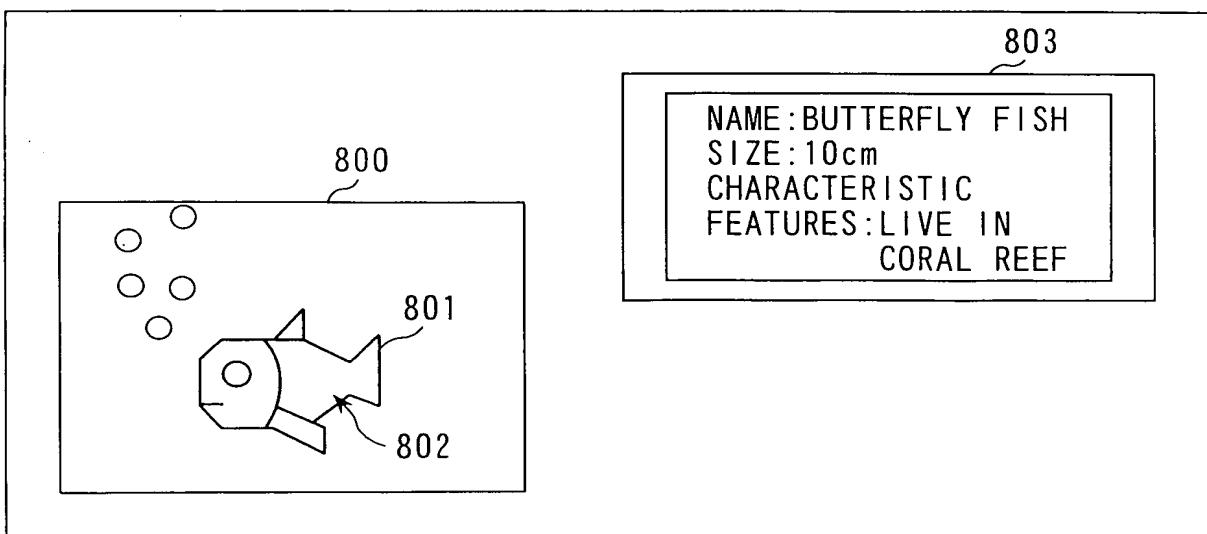
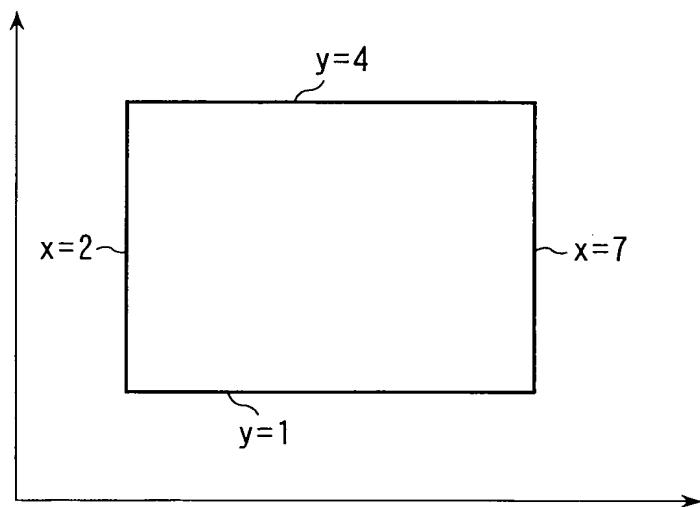


FIG. 47